

Figure 1

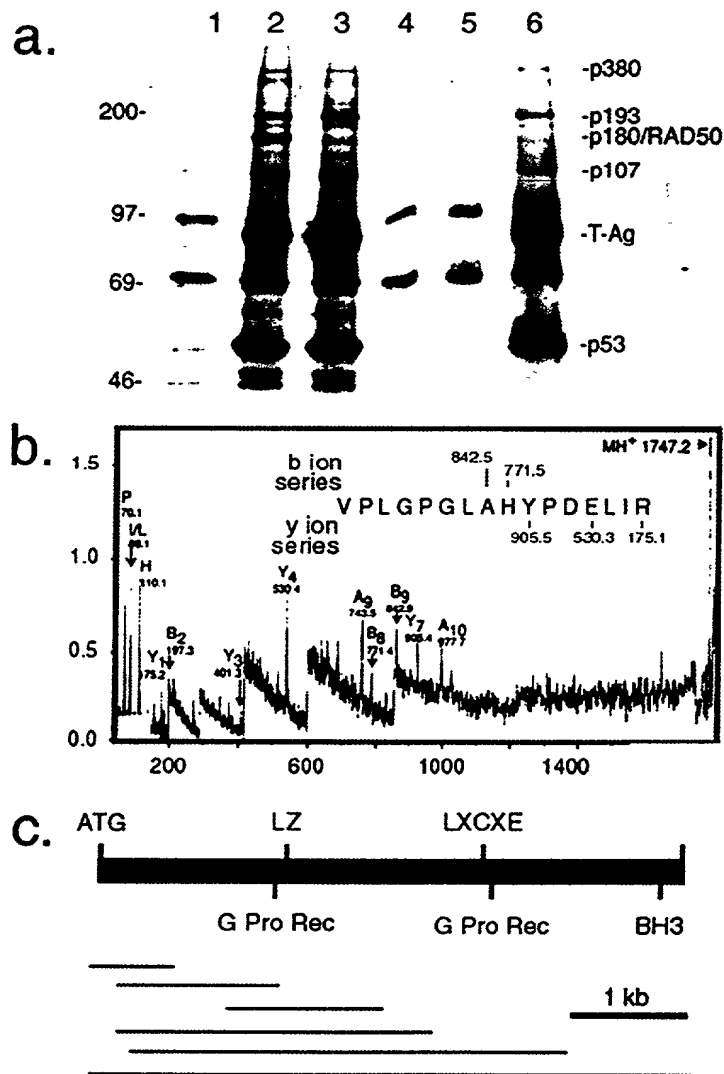


FIGURE 2

a.

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MVGELRYREFRVPLGPGHLHAYPDELIRQRVGHNGHPEYQIRWILIRRGDD      50
GDRDSTVDCKAEHILLWMSDDIYANCHKMLGENGQVIAPSRESTEAGAL      100
DKSVLGEMETDVKSILQRALRQLEECVGTVPAPLLHTVHVL SAYASIEP      150
LTGIFKDRRVNLLMHMLSSPDYQIRWSAGRMIALSSHDAGTRTQILLS      200
LSQQEAIEKHLDFDSRCALLALFAQATLTEHPMSFEGVQLPQVPGRLLFS      250
LVKRYLHVTFLLDRLNGDAGDQGAQNNFSPPEELNVGRGRLELEFSMAMGT      300
LISELVQAMRWGASSRPSSSSSTFQPRPAQFRPYTQFRFRSRRFRPRA      350
SFASFNTYALYVRDTLRPGMRVRMLENYEEIAAGDEGQFRQSDGVPAPQ      400
VLWDSTGHTYVWHWHMLEILGFEEIDIEDVIDIEELQELGANGALSIVPPS      450
QRWKPIITQLFAEPYVVPPEEDRESEENLTQAEWWELLFFIRQLSEAERLH      500
IVDLLQDHLEERVLVDYDMLPELTVPVDLAQDLLSLPQQLEDSALRDLF      550
SCSVYRKYGPEVLVGHLSYPFVPGAQPNLFGANESEAKDPPLQSPAL      600
QRLVESLGPGEVLVELEQALGSEAPQETEVKSCLLQLQEQQPFLALMR      650
SLDTSASNKTLHLTVLRILMQLVNFPEALLLPWHEAMDACVTCLRSPNTD      700
REVLQELIFFLHRLTTTSRDYAVILNQHGARDAISKVLEKHRGKLELAQE      750
LRDMVSKCEKHAHLRKLTTNIGGCIQMVLGQIEDHRRTHRPIQIPFFD      800
VFLRYLCQGSSEEMKKNRYWEKVEVSSNPQRASRLTDRNPPTYWESSGRA      850
GSHFITLHMRPGVIRQLTLLVAGEDSSYMPAWVVVCGGNSIKSVNKELN      900
TVNVMPASASRVTLLENLTRFWPIIQIRIKRCQQGGINTRIRGLEVLGPKP      950
TFWPVFREQLCRHTRLFYMVRAQAWSQDIAEDRRSLHLSSRLNGALRHE      1000
QNFAERFLPDMEAAQALSCTWEALVSPVQNTISPDEDSTSSLGWLLDQ      1050
YLGCREAAYNPQSRAAFSSRVRLTHLLVHVEPREAAPPVVAIPRSKGR      1100
NRIHDWSYLITRGLPSSIMKNLTRCWSRVVEEQMNKFLSASWKDDDFVPR      1150
YCERYVYLQSSSELFPGPRAAFLLAMRNGCADAVRRLPFLRAAHVKQOFA      1200
RHIDQRIQGSRMGGARGMEMLAQLQRCLESVLIFSPLEIATTFEHYYQHY      1250
MADRLLSVGSSWLEGAVLEQIGPCFPSPRLPQQMLQSLNVSEELQRQFHVY      1300
QLQQLDQELLKLEDTEKKIQVAHEDSGREDKSKKEEAIGEAAAVAMAE     1350
DQGKKEEGEEEGEGEDEEEERYKGTMPVCVLVVTFRFPVASVCQMLN      1400
PATCLPAYLRGTINHYTNFYSKSQRSSLEKEPQRRLOQWTWQGRAEVQFG      1450
GQILHVSTVQMWLLHLNNOKEVSVESLQAISELPPDVLHRAIGPLTSSR      1500
GPLDLQEKNVPGGVLKIRDDSEEPRRRGVWLI PPQTYLQAEAEGRN      1550
MEKRRNLLNCLVVRILKAHGDEGLHVDRLVYLVLEAWKGPCPARGLVSS      1600
LGRGATCRSSDVLSCILHLLVKGLTRRHDDRPOVLYYAVPVTVMPEPHMES      1650
LNPGSAGPNPPLTFHTLQIRSRGVYPYASCTDNHTFSTFR      1689

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b.

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p193:      LKAHGDE
Hrk:       LKALGDE
Bim:       LRRIGDE
Bik:       LACIGDE
Bid:       LAQIGDE
Blk:       LACIGDE
EGL-1:     LAAMCDD
BAD:       LRRMSDE
BNIP-3:    LKKNSDW

```

a.

b.

C.

C.

AT-2

Brain

Heart

Kidney

Liver

Lung

Sk. Mus.

Skin

Spleen

Testes

Uterus

Figure 4

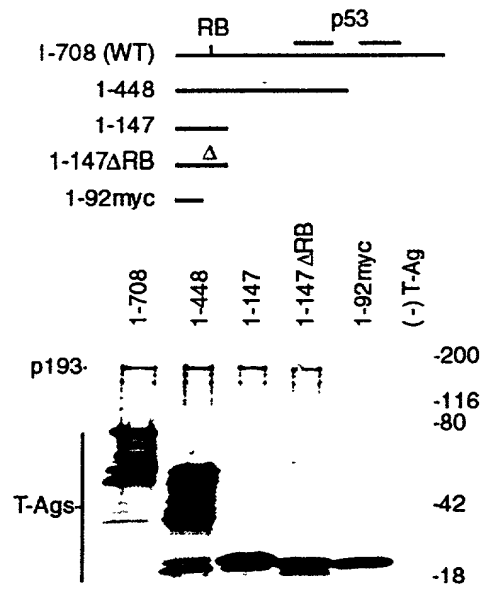


Figure 5.

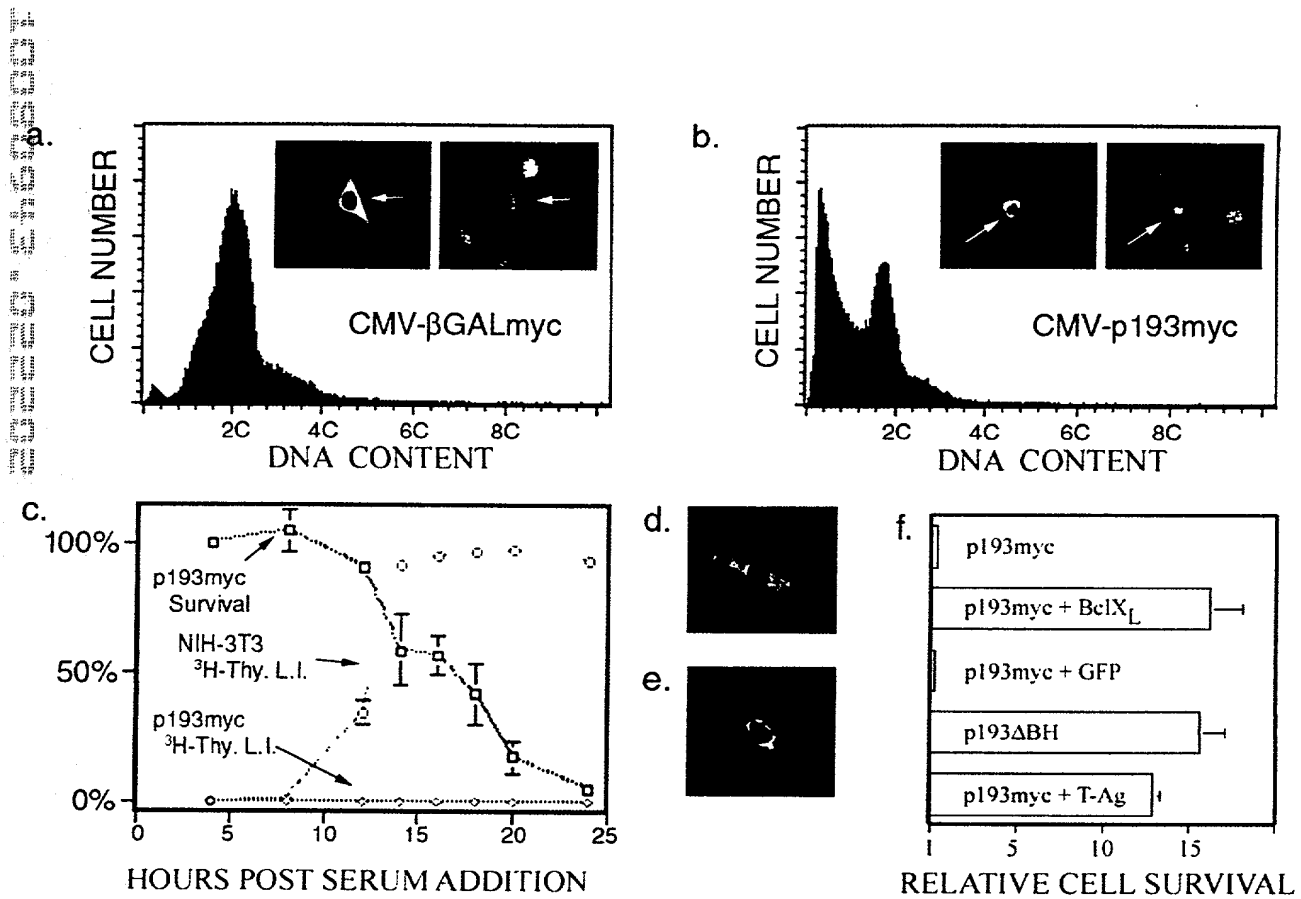


Figure 6

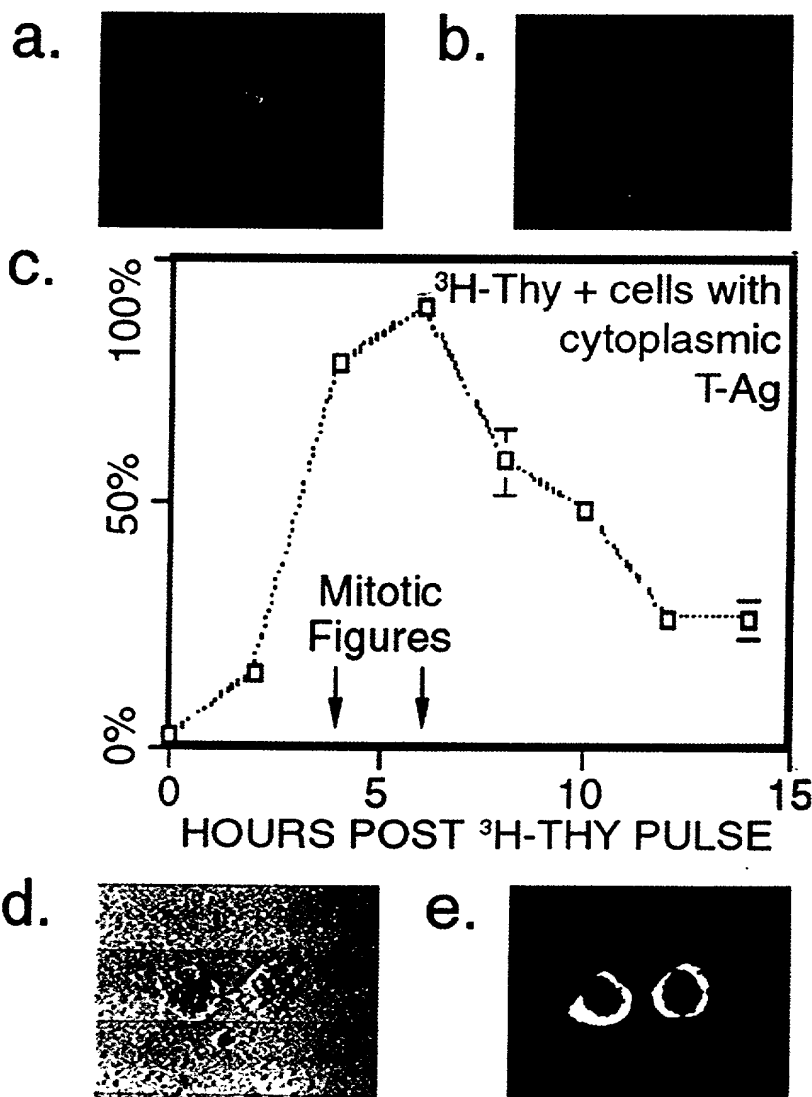
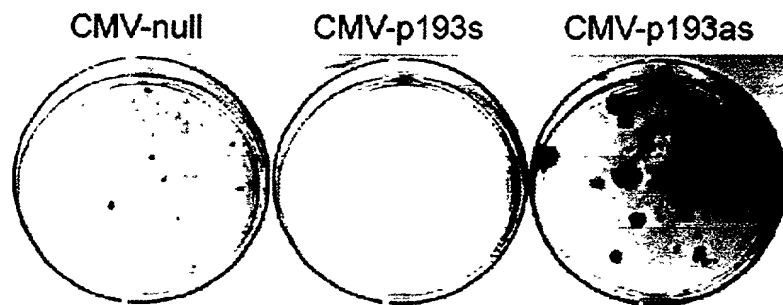


Figure 7.

A. NIH-3T3 colony growth assay:

- Transfect with various constructs
- Impose G418 selection
- Stain with gentian violet



B. RT-PCR analysis:

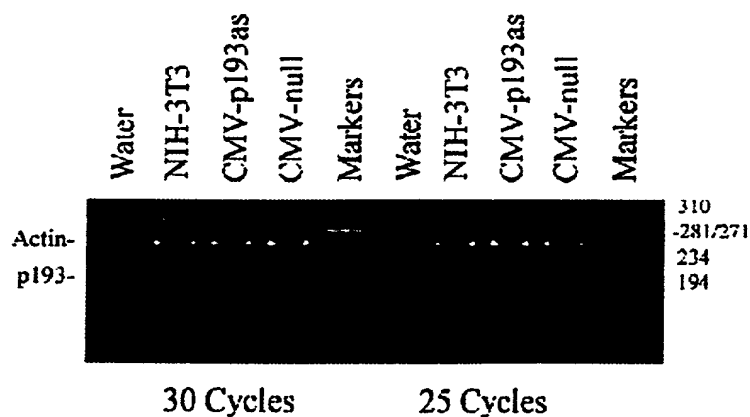
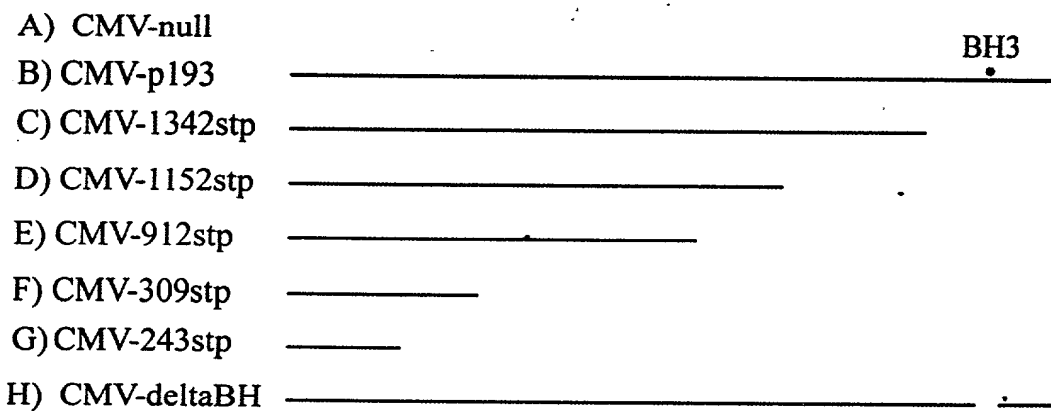


Figure 8.

A: Structure of CMV expression vectors with nested p193 C-terminal truncations.



B: Colony growth assay.

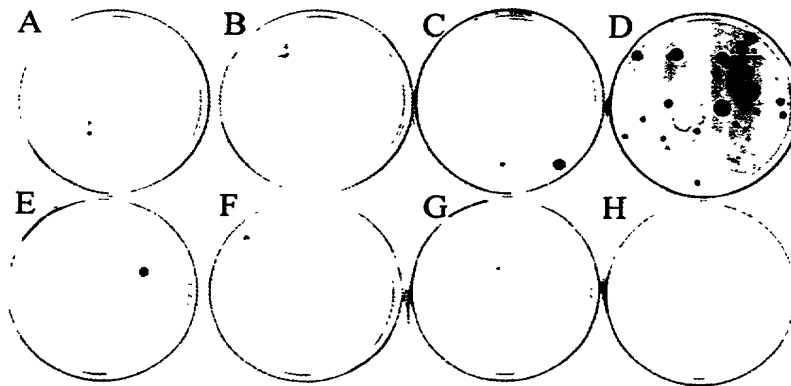


Figure 8C

p193dn Blocks MMS-induced Apoptosis
in NIH-3T3 Cells:

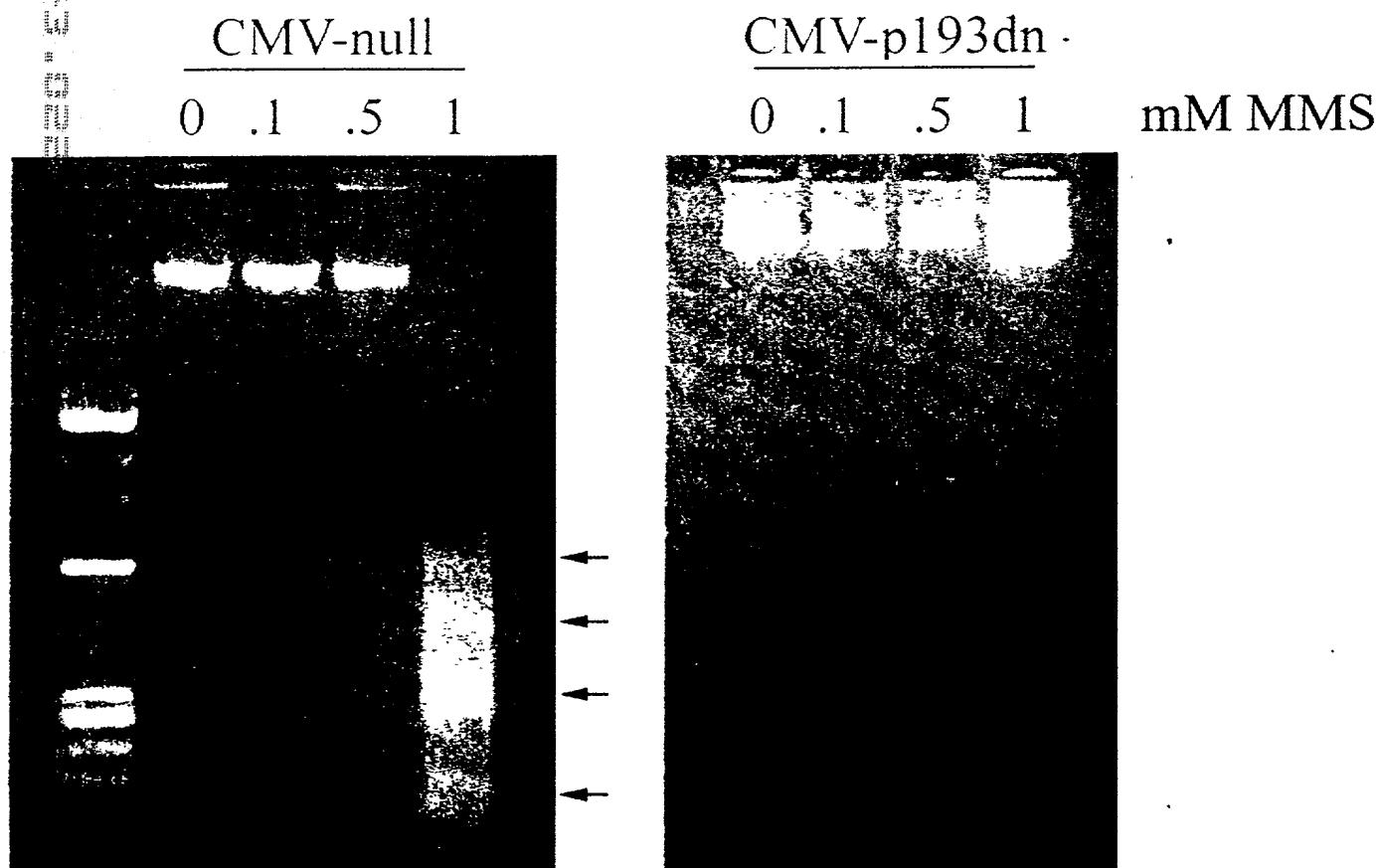


Figure 9.

MHC-p193dn Transgene

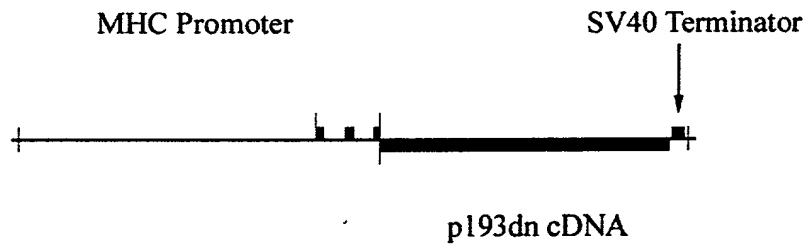


Figure 10.

Northern Blot of transgene expression in MHC-p193dn transgenic mice

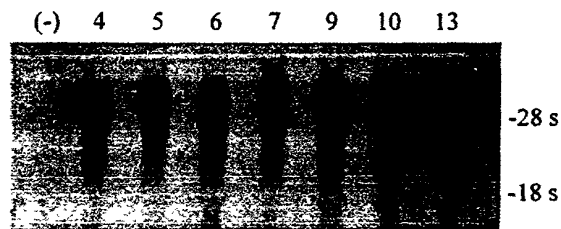


Figure 11.

A.



B.



C.



D.



Figure 12

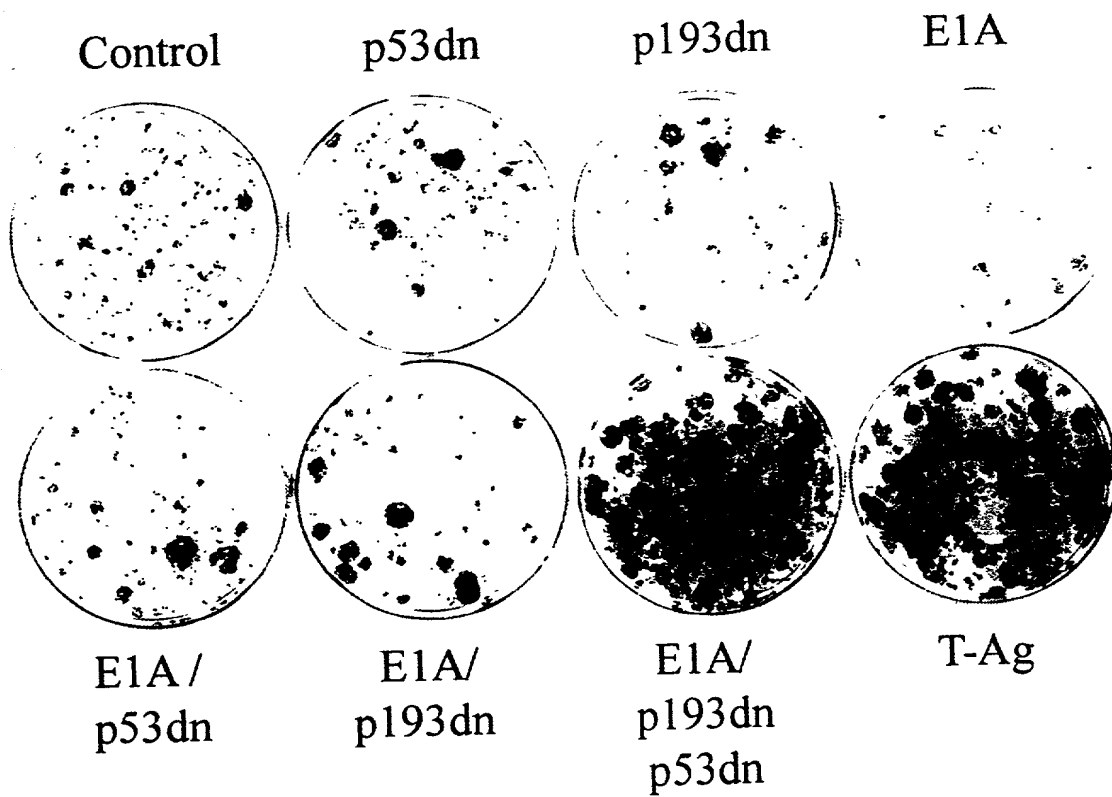


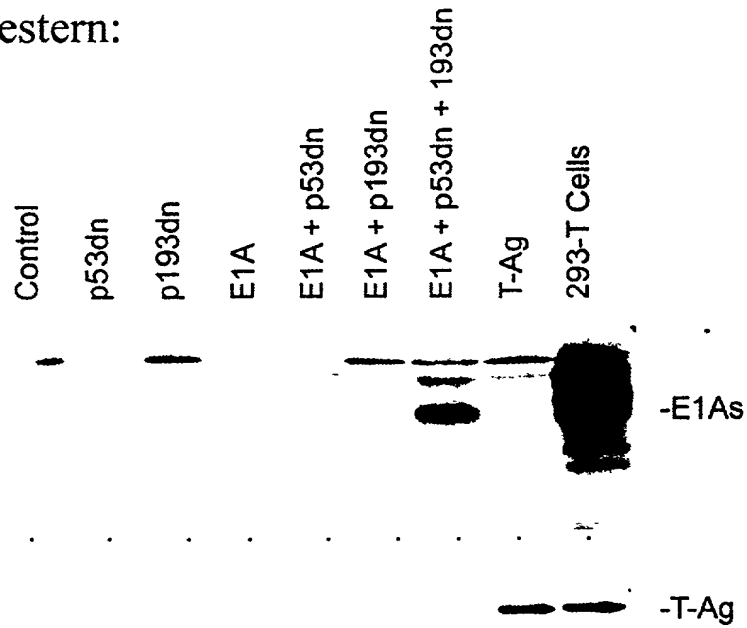
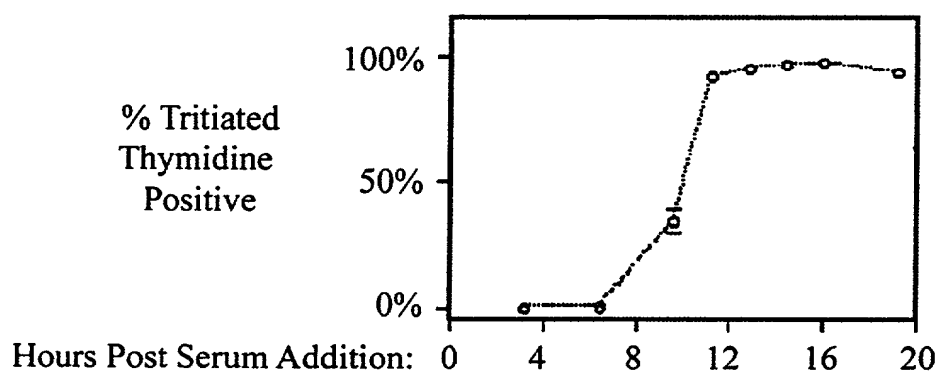
Figure 13**A) Western:****B) DNA Fragmentation:**

Figure 14

p193 is Expressed in G₁/S of the Cell Cycle:

A) Cell Cycle Synchronization:



B) Western Analysis of p193 Expression:

Hours Post Serum Addition:

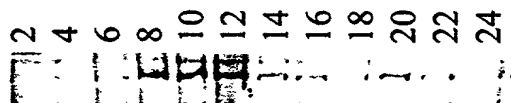


Figure 15

Isoproterenol induces growth in cardiomyocytes
which co-express p193dn and p53dn.

- ISO

+ ISO

